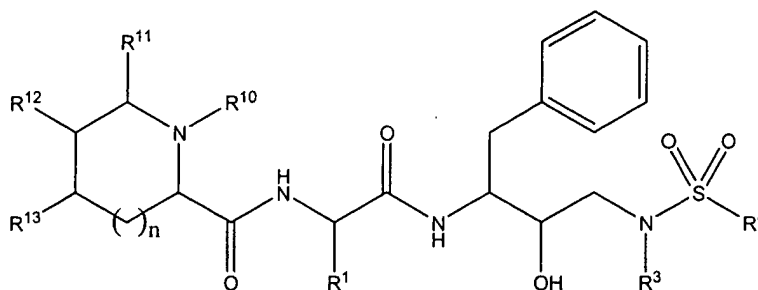


This Listing of Claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

Claim 1 (currently amended): A compound represented by the formula:

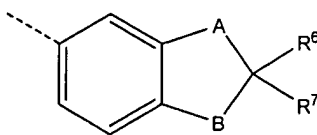


or a pharmaceutically acceptable salt, ~~prodrug or ester~~ thereof, wherein n represents 0 or 1;

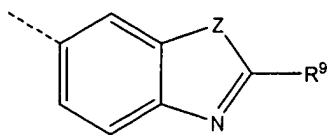
R<sup>1</sup> represents alkyl of 1-5 carbon atoms, alkenyl of 2-5 carbon atoms, alkynyl of 2-5 carbon atoms, hydroxyalkyl of 1-3 carbon atoms, alkoxyalkyl of 1-3 alkyl carbon atoms and 1-3 alkoxy carbon atoms, cyanoalkyl of 1-3 alkyl carbon atoms, imidazolylmethyl, -CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>S(O)<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>SCH<sub>3</sub>, -CH<sub>2</sub>S(O)CH<sub>3</sub>, -CH<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>SCH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>S(O)CH<sub>3</sub> or -C(CH<sub>3</sub>)<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>;

R<sup>3</sup> represents alkyl of 1-5 carbon atoms, cycloalkyl of 5-8 ring members or cycloalkylmethyl of 3-6 ring members;

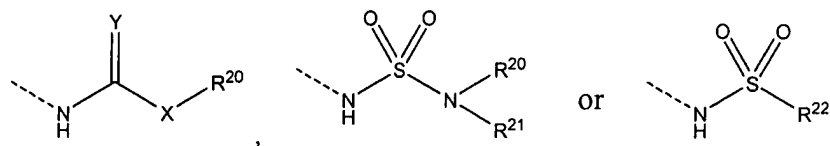
R<sup>4</sup> represents aryl, benzo fused 5 to 6 ring member heteroaryl or benzo fused 5 to 6 ring member heterocyclo radicals; or a radical of the formula



wherein A and B each independently represent O, S, SO or SO<sub>2</sub>; R<sup>6</sup> represents deuterium, alkyl of 1-5 carbon atoms, fluoro or chloro; R<sup>7</sup> represents hydrogen, deuterium, methyl, fluoro or chloro; or a radical of the formula



wherein Z represents O, S or NH; and R<sup>9</sup> represents a radical of formula



wherein Y represents O, S or NH; X represents a bond, O or NR<sup>21</sup>;

R<sup>20</sup> represents a hydrogen radical, alkyl of 1 to 5 carbon atoms, alkenyl of 2 to 5 carbon atoms, alkynyl of 2 to 5 carbon atoms, aralkyl of 1 to 5 alkyl carbon atoms, heteroaralkyl of 5 to 6 ring members and 1 to 5 alkyl carbon atoms, heterocycloalkyl of 5 to 6 ring members and 1 to 5 alkyl carbon atoms, aminoalkyl of 2 to 5 carbon atoms, N-mono-substituted or N,N-disubstituted aminoalkyl of 2 to 5 alkyl carbon atoms wherein said substituents are alkyl of 1 to 3 carbon atoms, aralkyl of 1 to 3 alkyl carbon atoms, carboxyalkyl of 1 to 5 carbon atoms, alkoxycarbonylalkyl of 1 to 5 alkyl carbon atoms, cyanoalkyl of 1 to 5 carbon atoms or hydroxyalkyl of 2 to 5 carbon atoms;

R<sup>21</sup> represents a hydrogen radical or alkyl of 1 to 3 carbon atoms; or the radical of formula -NR<sup>20</sup>R<sup>21</sup> represents a 5 to 6 ring member heterocyclo radical; and

R<sup>22</sup> represents alkyl of 1 to 3 carbon atoms or an -R<sup>20</sup>R<sup>21</sup>N-alkyl radical of 1 to 3 alkyl carbon atoms;

R<sup>10</sup> represents a hydrogen radical, alkyl of 1-3 carbon atoms, benzyl, phenylmethoxycarbonyl, tert-butoxycarbonyl or (4-methoxyphenylmethoxy) carbonyl radicals;

R<sup>11</sup> represents a hydrogen radical, hydroxyalkyl of 1-3 carbon atoms or alkoxyalkyl of 1-3 alkyl carbon atoms;

R<sup>12</sup> and R<sup>13</sup> each independently represent a hydrogen radical, hydroxy, alkoxy of 1-3 carbon

atoms, 2-hydroxyethoxy, hydroxyalkyl of 1-3 carbon atoms or alkoxyalkyl of 1-3 alkyl carbon atoms; or R<sup>11</sup> and R<sup>12</sup> or R<sup>12</sup> and R<sup>13</sup> along with the carbon atoms to which they are attached represent a benzo radical, which is optionally substituted with at least one hydroxy or alkoxy of 1-3 carbon atoms,

wherein aryl, alone or in combination, is a phenyl or naphthyl radical optionally substituted with one or more substituents selected from the group consisting of alkyl, alkoxy, halogen, hydroxy, amino, nitro, cyano, haloalkyl, carboxy, alkoxycarbonyl, cycloalkyl, heterocyclo, alkanoylamino, amido, amidino, alkoxycarbonylamino, N-alkylamidino, alkylamino, dialkylamino, N-alkylamido, N,N-dialkylamido, aralkoxycarbonylamino, alkylthio, alkylsulfinyl, and alkylsulfonyl;

wherein cycloalkyl, alone or in combination, is a saturated or partially saturated monocyclic, bicyclic or tricyclic alkyl radical optionally substituted with one or more substituents as defined with respect to aryl;

wherein heterocyclo, alone or in combination, is a saturated or partially unsaturated monocyclic, bicyclic or tricyclic heterocycle radical having at least one nitrogen, oxygen, or sulfur atom ring member, or a corresponding sulfone, sulfoxide, or N-oxide derivative of said heterocycle radical, wherein said heterocycle radical is optionally substituted with one or more substituents selected from the group consisting of halogen, alkyl, alkoxy, hydroxy, oxo, aryl, aralkyl, heteroaryl, heteroaralkyl, amidino, N-alkylamidino, alkoxycarbonylamino, and alkylsulfonylamino, is optionally substituted on a secondary nitrogen atom with a substituent selected from the group consisting of hydroxy, alkyl, aralkoxycarbonyl, alkanoyl, heteroaralkyl, phenyl and phenylalkyl, and is optionally substituted on a tertiary nitrogen atom by oxido; and

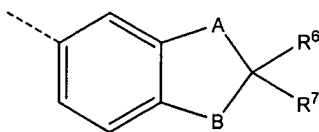
wherein heteroaryl, alone or in combination, is an aromatic heterocycle radical optionally substituted with one or more substituents as defined with respect to aryl or heterocyclo.

Claim 2 (currently amended): The compound of claim 1, or a pharmaceutically acceptable salt, ~~prodrug or ester~~ thereof, wherein

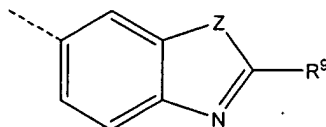
R<sup>1</sup> represents alkyl of 1-4 carbon atoms, alkenyl of 2-3 carbon atoms, alkynyl of 3-4 carbon atoms, cyanomethyl, imidazolymethyl, -CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>S(O)<sub>2</sub>NH<sub>2</sub>, -CH<sub>2</sub>SCH<sub>3</sub>, -CH<sub>2</sub>S(O)CH<sub>3</sub>, -CH<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>SCH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>S(O)CH<sub>3</sub> or -C(CH<sub>3</sub>)<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>;

R<sup>3</sup> represents alkyl of 1-5 carbon atoms, cycloalkylmethyl of 3-6 ring members, cyclohexyl or cycloheptyl;

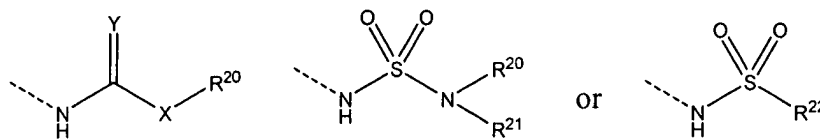
R<sup>4</sup> represents phenyl, 2-naphthyl, 4-methoxyphenyl, 4-hydroxyphenyl, 3,4-dimethoxyphenyl, 3-aminophenyl, 4-aminophenyl, 2-amino-benzothiazol-5-yl, 2-amino-benzothiazol-6-yl, benzothiazol-5-yl, benzothiazol-6-yl, benzoxazol-5-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl or 1,4-benzodioxan-6-yl radicals, or a radical of the formula



wherein A and B each represent O; R<sup>6</sup> represents deuterium, methyl, ethyl, propyl, isopropyl or fluoro; and R<sup>7</sup> represents hydrogen, deuterium, methyl or fluoro; or a radical of the formula



wherein Z represents O, S or NH; and R<sup>9</sup> represents a radical of formula



wherein Y represents O, S or NH; X represents a bond, O or NR<sup>21</sup>;

R<sup>20</sup> represents a hydrogen radical, alkyl of 1 to 5 carbon atoms, phenylalkyl of 1 to 3 alkyl carbon atoms, heterocycloalkyl of 5 to 6 ring members and 1 to 3 alkyl carbon atoms, or N-

mono-substituted or N,N-disubstituted aminoalkyl of 2 to 3 alkyl carbon atoms wherein said substituents are alkyl of 1 to 3 carbon atoms;

R<sup>21</sup> represents a hydrogen radical or methyl; or the radical of formula -NR<sup>20</sup>R<sup>21</sup> represents pyrrolidinyl, piperidinyl, piperazinyl, 4-methylpiperazinyl, 4-benzylpiperazinyl, morpholinyl or thiamorpholinyl; and

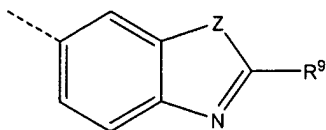
R<sup>22</sup> represents alkyl of 1 to 3 carbon atoms.

Claim 3 (currently amended): The compound of claim 2, or a pharmaceutically acceptable salt, ~~prodrug or ester~~ thereof, wherein n is 0;

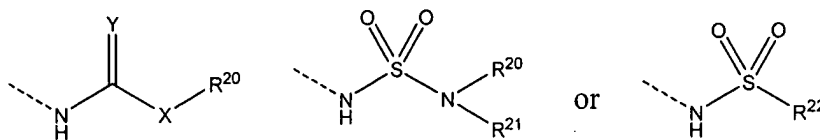
R<sup>1</sup> represents iso-propyl, sec-butyl, tert-butyl, 3-propynyl, imidazolylmethyl, -CH<sub>2</sub>CONH<sub>2</sub>, -CH<sub>2</sub>SCH<sub>3</sub>, -CH<sub>2</sub>S(O)CH<sub>3</sub>, -CH<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>SCH<sub>3</sub>, -C(CH<sub>3</sub>)<sub>2</sub>S(O)CH<sub>3</sub> or -C(CH<sub>3</sub>)<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>;

R<sup>3</sup> represents propyl, isoamyl, isobutyl, butyl, cyclohexyl, cycloheptyl, cyclopentylmethyl or cyclohexylmethyl;

R<sup>4</sup> represents phenyl, 2-naphthyl, 4-methoxyphenyl, 4-hydroxyphenyl, benzothiazol-5-yl, benzothiazol-6-yl, benzoxazol-5-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl, 2-methyl-1,3-benzodioxol-5-yl, 2,2-dimethyl-1,3-benzodioxol-5-yl, 2,2-dideutero-1,3-benzodioxol-5-yl, 2,2-difluoro-1,3-benzodioxol-5-yl or 1,4-benzodioxan-6-yl radicals; or a radical of the formula



wherein Z represents O, S or NH; and R<sup>9</sup> represents a radical of formula



wherein Y represents O, S or NH; X represents a bond, O or NR<sup>21</sup>;

R<sup>20</sup> represents a hydrogen radical, methyl, ethyl, propyl, isopropyl, isobutyl, benzyl, 2-(1-pyrrolidinyl)ethyl, 2-(1-piperidinyl)ethyl, 2-(1-piperazinyl)ethyl, 2-(4-methylpiperazin-1-yl)ethyl, 2-(1-morpholinyl)ethyl, 2-(1-thiomorpholinyl)ethyl or 2-(N,N-dimethylamino)ethyl;

R<sup>21</sup> represents a hydrogen radical; and

R<sup>22</sup> represents methyl;

R<sup>10</sup> represents a hydrogen radical, methyl or benzyl;

R<sup>11</sup> represents a hydrogen radical; and

R<sup>12</sup> and R<sup>13</sup> each independently represent a hydrogen radical, hydroxy or methoxy; or R<sup>11</sup> and R<sup>12</sup> along with the carbon atoms to which they are attached represent a benzo radical, which is optionally substituted with at least one hydroxy or methoxy.

Claim 4 (currently amended): The compound of claim 3 or a pharmaceutically acceptable salt, ~~ester, or prodrug~~ thereof, wherein

R<sup>1</sup> represents sec-butyl, tert-butyl, iso-propyl, 3-propynyl or -C(CH<sub>3</sub>)<sub>2</sub>S(O)<sub>2</sub>CH<sub>3</sub>;

R<sup>4</sup> represents phenyl, 4-methoxyphenyl, 4-hydroxyphenyl, benzothiazol-5-yl, benzothiazol-6-yl, 2,3-dihydrobenzofuran-5-yl, benzofuran-5-yl, 1,3-benzodioxol-5-yl, 2-methyl-1,3-benzodioxol-5-yl, 2,2-dimethyl-1,3-benzodioxol-5-yl, 2,2-dideutero-1,3-benzodioxol-5-yl, 2,2-difluoro-1,3-benzodioxol-5-yl, 1,4-benzodioxan-6-yl, 2-(methoxycarbonylamino)benzothiazol-6-yl or 2-(methoxycarbonylamino)benzimidazol-5-yl;

R<sup>10</sup> represents a hydrogen radical or methyl;

R<sup>12</sup> represents a hydrogen radical or hydroxy; and

R<sup>13</sup> represents a hydrogen radical.

Claim 5 (previously presented): The compound of claim 1 wherein said pharmaceutically acceptable salt is hydrochloric acid salt, sulphuric acid salt, phosphoric acid salt, oxalic acid salt, maleic acid salt, succinic acid salt, citric acid salt or methanesulfonic acid salt.

Claim 6 (previously presented): The compound of claim 5 wherein said pharmaceutically acceptable salt is hydrochloric acid salt, oxalic acid salt, citric acid salt or methanesulfonic acid salt.

Claim 7 (canceled)

Claim 8 (currently amended): A composition comprising a compound of claim 1 or a pharmaceutically acceptable salt thereof and a pharmaceutically acceptable carrier.

Claim 9 (withdrawn): A method of inhibiting a retroviral protease comprising administering an effective amount of a compound of claim 1 or a pharmaceutically acceptable salt thereof.

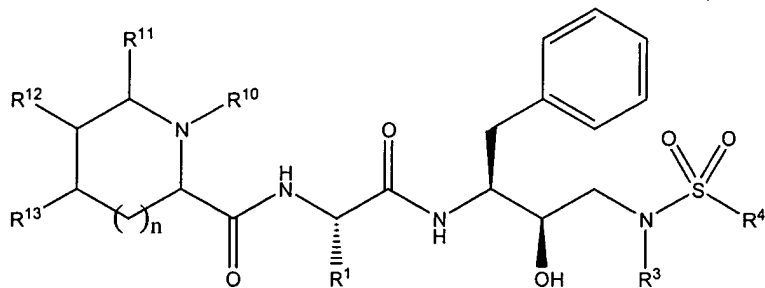
Claim 10 (withdrawn): A method of treating a retroviral infection comprising administering an effective amount of a composition of claim 8.

Claim 11 (withdrawn): A method of preventing replication of a retrovirus comprising administering an effective amount of a compound of claim 1 or a pharmaceutically acceptable salt thereof.

Claim 12 (withdrawn): A method of preventing replication of a retrovirus *in vitro* comprising administering an effective amount of a compound of claim 1 or a pharmaceutically acceptable salt thereof.

Claim 13 (withdrawn): A method of treating AIDS comprising administering an effective amount of a composition of claim 8.

Claim 14 (currently amended): The compound of claim 1 represented by the formula



or a pharmaceutically acceptable salt, ~~prodrug or ester~~ thereof.